AirTies
wireless networks

Wireless Access Point

AP-400

USER MANUAL

CE

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CE

Manual Overview

This manual guides you through the steps necessary for setting up and configuring the AirTies AP-400 54Mbps 802.11g Wireless Access Point/Repeater/Bridge. Please read this manual carefully before beginning the installation process.

The Warranty does not cover failure or damage as a result of not following the instructions in the manual. AirTies will not be held responsible in such circumstances.

The User Manual is an important resource you can refer to for safe and proper use of your device. Please retain it for future reference.

Safety and Maintenance

- In order to prevent damage to your device, be sure to keep it in its original box during
- The device must be used solely with its original power adapter. Please note that the adapter is 220V only. Do not use with 110V AC.
- Do not insert a PSTN (phone) plug into the LAN port.
- If you encounter any problems, do not open or disassemble the device. Instead, call AirTies Technical Support.
- In order to prevent electric shock, do not operate the device in wet or damp areas.
- In the event of a gas leak, do not use the device. Do not turn the device on or off. Do not plug or unplug the power cord.
- Avoid using the device in dusty environments. If dust buildup should occur, use a dry cloth to remove the dust.
- To clean the exterior of the device use a dry cloth. Do not attempt to clean the interior. There are no user serviceable components inside.
- For information regarding the installation and configuration of the device consult the remainder of this manual.

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1. Introduction

The AirTies AP-400 is an IEEE 802.11b/g compliant, 54 Mbps wireless communication device that can be used as a Wireless Access Point, Repeater, Bridge or a 4-port Switch.

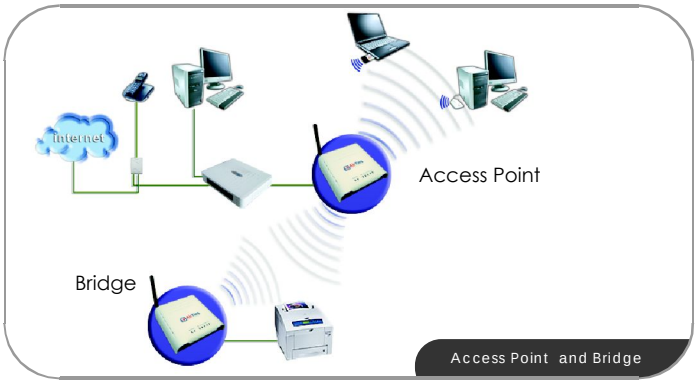
You can connect the AirTies AP-400 to a wired modem or router through one of the Ethernet ports to setup a wireless local network and enable your wireless computers to access the Internet.

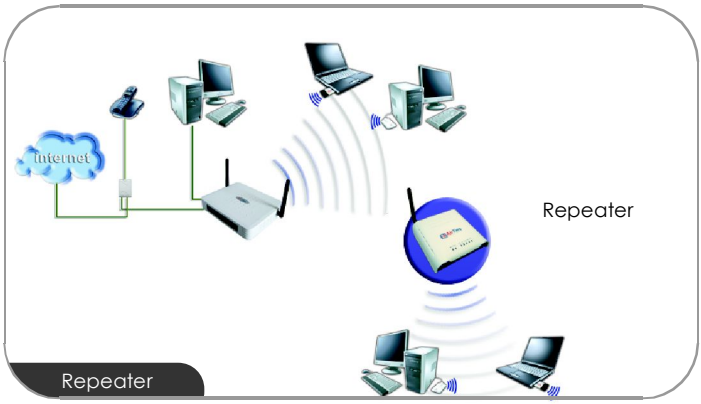
As a **repeater**, the AP-400 makes it possible to extend the coverage area of a wireless network. AirTies Mesh Technology is used for this purpose.

The AirTies Mesh Technology resolves problems such as loss of wireless signal or limited coverage area often encountered in multiple-story or reinforced concrete buildings. To extend your wireless coverage, all you need to do is to add new AP-400 devices to your wireless network and set them to function as repeaters. Computers on the network connect to the AP-400 with the strongest signal, and reach the router or the wired network through the AirTies Mesh Network.

Used as a **switch**, it lets you attach four PCs or any devices with an ethernet interface (such as network printers or gaming consoles) directly. You can daisy-chain out to more hubs and switches as your network grows.

The AP-400, used as a **bridge**, enables devices without wireless capability but with an Ethernet interface (such as printers and desktop computers) to be included in a wireless network.





1.1. Main Features

- IEEE 802.11b/g compliant, 54Mbps Wireless Access Point, Repeater, Bridge
- Fully compatible with widely used Centrino laptops and 802.11b/g wireless devices
- AirTies Mesh Technology support to extend wireless coverage area across very wide areas or concrete buildings where signal strength problems are common
- Used as a "Wireless Bridge", ability to include wired devices with an Ethernet interface in the wireless network
- Wireless operating ranges of up to 400 meters outdoors and 100 meters indoors
- Advanced wireless security with support for WPA2, WPA,WEP, and 802.1x standards
- High performance through the use of the latest chip technologies
- With "Auto MDI/MDIX", it automatically detects straight and cross Ethernet cables
- Easy to use Web-based user interface
- Automatic local IP address assignment by the DHCP server
- Firmware updates through the web interface
- 24x7 technical support by the highly trained AirTies Technical Support backed up by the AirTies R&D team

1.2. Minimum System Requirements

- In order to configure the AirTies AP-400, you will need a PC that runs any version of Windows, UNIX, Linux, or MAC operating systems and has an Ethernet card or a wireless network adapter
- The AP-400 does not need to be connected to a PC during normal operation.

1.3. Package Contents

- AP-400 54Mbps 802.11g Wireless Access Point / Repeater / Bridge
- Ethernet Cable
- Power Adapter
- User Manual

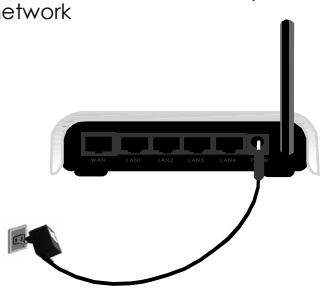
1.4. Top View

LED	Light	State
Power	Green	AP-400 is powered on.
	Off	AP-400 is off.
WLAN	Green	Wireless network is set up and active
	Green flashing	Data exchange over the Wireless LAN
	Off	Wireless network not active
LAN1 - LAN4	Green	There is a device connected to the corresponding LAN port
	Green flashing	Data exchange over the corresponding LAN port
	Off	No connection on the corresponding LAN port

2. Easy Setup

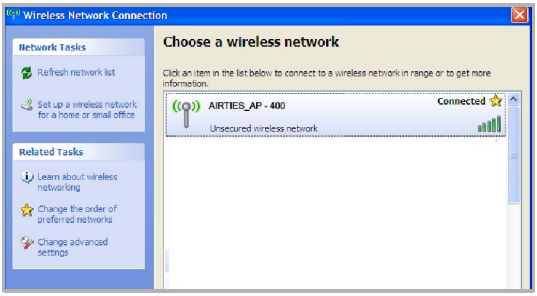
The AirTies AP-400 is setup to function as an Access Point as the factory default. To make your router wireless and setup your wireless network

- Plug in your AP-400.



•Connect the Ethernet port of your router or switch to one of the Ethernet ports (LAN1-LAN4) of the AP-400.

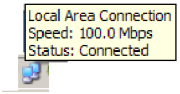
- For each wireless PC (running Windows) that you would like to connect to the AP-400, go to Start-Settings-Network Connections-Wireless Network Connection-View Wireless Networks and connect to the wireless network named AIRTIES_AP-400.


Wireless Network Connection
Network Tasks
Refresh network list
Set up a wireless network for a home or small office
Related Tasks
Learn about wireless networking
Change the order of preferred networks
Change advanced settings
Choose a wireless network
Click an item in the list below to connect to a wireless network in range or to get more information.
AIRTIES_AP - 400
Connected
Unsecured wireless network

3. Preparing for Installation

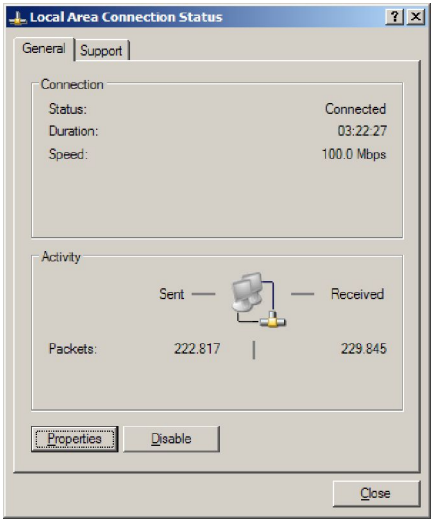
The AirTies AP-400's DHCP feature is not enabled by default and thus it cannot assign an IP address to the PC connected to it. You will need to assign an IP address to the PC manually. It is recommended that the installation settings of the AP-400 be done from a PC that is directly, not wirelessly, connected to it.

3.1. Assigning a local IP address to a computer that is running WindowsXP

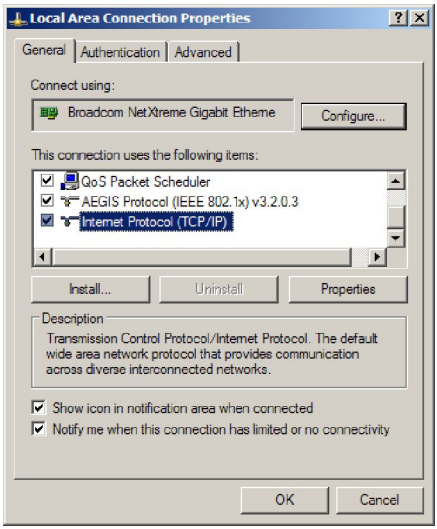


Double-click on the "Local Area Connection" icon on the bottom right corner of the WindowsXP desktop. This will bring up the "Local Area Connection Status" window.

Click "Properties" to go to the "Local Area Connection Properties" window.

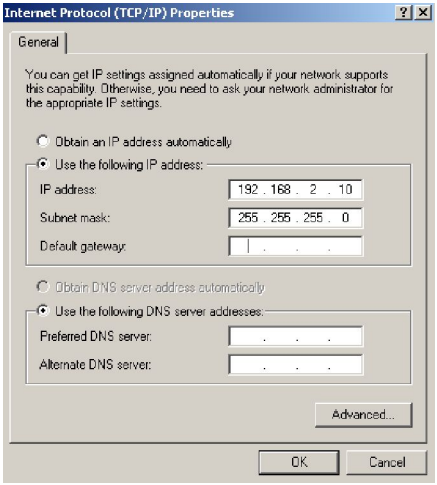


Select "Internet Protocol (TCP/IP)" and click "Properties".



In the "Internet Protocol (TCP/IP) Properties" window, enter 192.168.2.10 in the "IP Address" field and 255.255.255.0 in the "Subnet Mask" field. The IP address of the AP-400 is 192.168.2.254. Therefore, the IP address of the computer should be in the 192.168.2.x range.

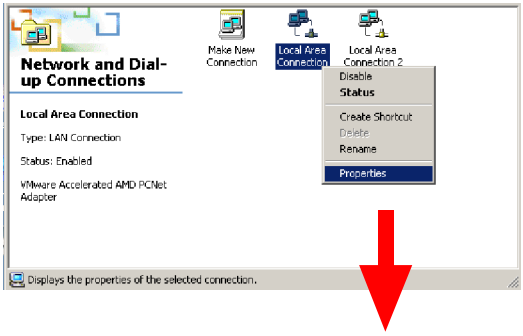
Click "OK" to save the values you have entered.


Internet Protocol (TCP/IP) Properties
General
You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.
Obtain an IP address automatically
Use the following IP address:
IP address:
192 . 168 . 2 . 10
Subnet mask:
255 . 255 . 255 . 0
Default gateway:
Obtain DNS server address automatically
Use the following DNS server addresses:
Preferred DNS server:
Alternate DNS server:
Advanced...
OK
Cancel

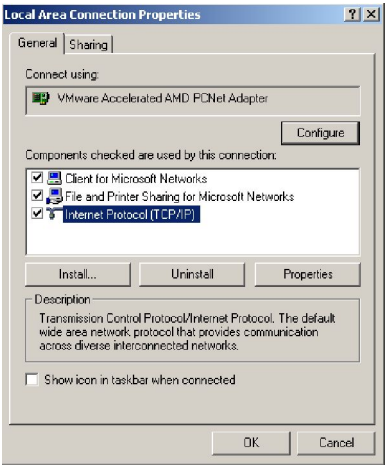
3.2 Assigning a local IP address to a computer that is running Windows2000

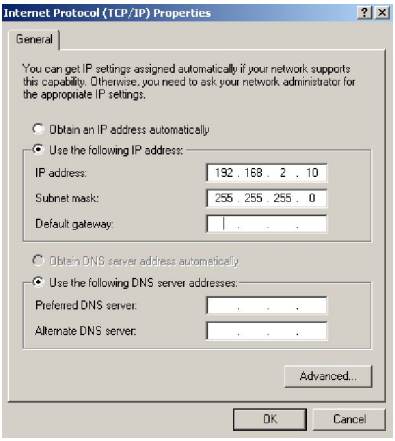
Right-click on the "Network Neighborhood" icon on your desktop and select "Properties".

In the window that appears, right-click on the "Local Area Connection" icon and select "Properties". This will bring up the "Local Area Connection Properties" window.



Click "Internet Protocol (TCP/IP) then click "Properties".




Internet Protocol (TCP/IP) Properties
General
You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.
Obtain an IP address automatically
Use the following IP address:
IP address: 192 . 168 . 2 . 10
Subnet mask: 255 . 255 . 255 . 0
Default gateway:
Obtain DNS server address automatically
Use the following DNS server addresses:
Preferred DNS server:
Alternate DNS server:
Advanced...
OK
Cancel

In the "Internet Protocol (TCP/IP) Properties" window, enter 192.168.2.10 in the "IP Address" field and 255.255.255.0 in the "Subnet Mask" field. The IP address of the AP-400 is 192.168.2.254. Therefore, the IP address of the computer should be in the 192.168.2.x range.

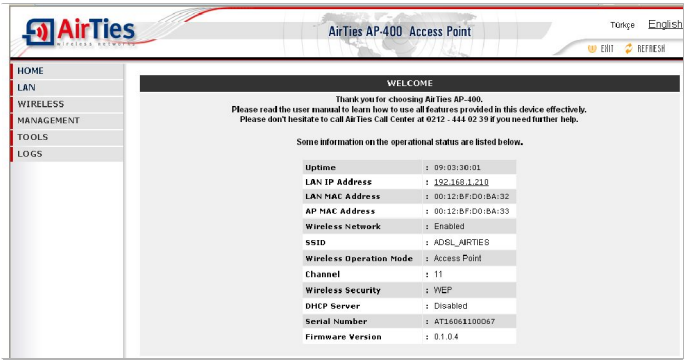
Click "OK" to save the values you have entered.

4. Advanced Setup

To configure the installation settings of your AirTies AP-400, open a web browser (e.g. Internet Explorer, Mozilla Firefox, Netscape). In the Address field enter **192.168.2.254**, the default IP address of the device, and press Enter. This will launch the web interface of your AirTies AP-400.

You will be prompted for a password to login. There is no password set by default. Initially, leave this field blank and continue by clicking "**Submit**".

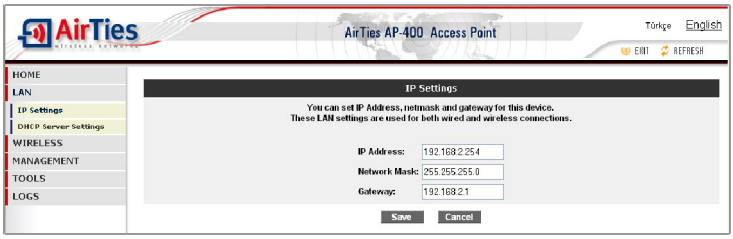
In the screen that appears, the "Welcome" screen, a summary of the current network and device settings are displayed.


AirTies
AirTies AP-400 Access Point
Türkçe English
EXIT REFRESH
HOME
LAN
WIRELESS
MANAGEMENT
TOOLS
LOGS
WELCOME
Thank you for choosing AirTies AP-400.
Please read the user manual to learn how to use all features provided in this device effectively.
Please don't hesitate to call AirTies Call Center at 0212 - 444 02 39 if you need further help.
Some information on the operational status are listed below.
Uptime : 09:03:30:01
LAN IP Address : 192.168.1.210
LAN MAC Address : 00:12:BF:D0:BA:32
AP MAC Address : 00:12:BF:D0:BA:33
Wireless Network : Enabled
SSID : ADSL_AIRTIES
Wireless Operation Mode : Access Point
Channel : 11
Wireless Security : WEP
DHCP Server : Disabled
Serial Number : AT16061100067
Firmware Version : 0.1.0.4

4.1. IP Settings

You can change the IP address, the subnet mask and the gateway address of the AP-400 by going to the" IP Settings" submenu under the "LAN" menu of the web interface.

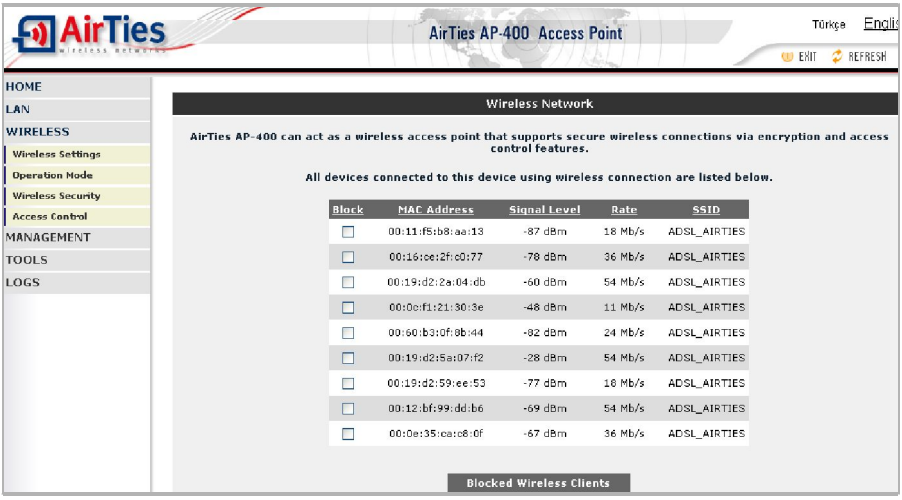
You can get these values from your network administrator.



Note: If you change the IP address of the AP-400, you must use the new address to connect to the AP-400's web interface.

4.2. Wireless

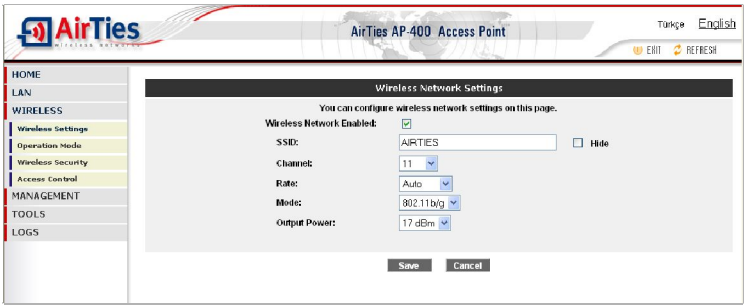
Clicking on the "WIRELESS " menu on the left menu bar of the AP-400 web interface displays all the wireless devices connected to the AP-400. You can block a device's access to the AP-400 by checking the "Block" box to the left of the MAC address of the device. When all your modifications are done, click "Save".



4.2.1. Wireless Settings

To configure your wireless network, go to "Wireless Settings" under the "WIRELESS " menu of the AP-400 web interface. In this window, you can configure your wireless network.

- Wireless Network Name (SSID) : In this field, you can assign a name to your wireless network and enable/disable the broadcasting of this name by the AP-400.
- Channel : Enter the broadcast channel number (frequency) in this field.
- Data Rate : You can adjust the wireless data rate of the AP-400. It is recommended that you leave this field as "Auto".
- Mode : Select the wireless mode the AP-400 will be operating in.
- Wireless Transmit Power : You can set the Transmit Power of the AP-400. The lower the transmit power, the smaller your wireless range will be.

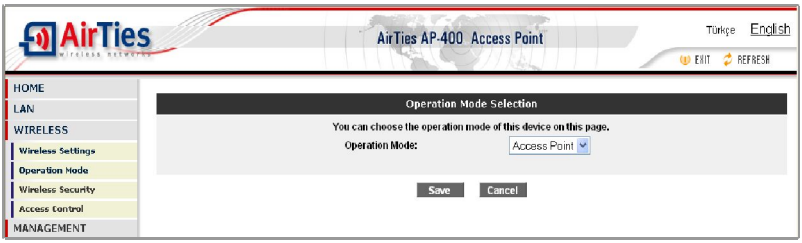


Click "Save" when you are done.

4.3. Setting the Operation Mode

The AP-400 can operate as either an Access Point, a Repeater, or a Bridge : it can operate as either an access point or a repeater or a bridge.

To set the Operation mode, go to the "Operation Mode" submenu under the "WIRELESS" menu. The "Operation Mode Selection" window will appear.



In this window, select the mode that you want your AP-400 to operate in and click "Save".

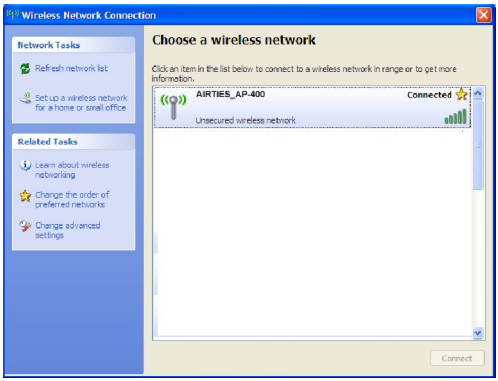
4.3.1. Configuring the AP-400 as an Access Point

The AP-400 operates as an **Access Point** by default unless a different mode is selected. Connect the AP-400 to an ADSL router, cable modem or local area network via its Ethernet port.

The diagram below is an example where the AP-400 is being used as an access point device.

- ✓ First verify that your computer has an IEEE 802.11b or 802.11g compatible Wireless Access Card installed. If not, first install a Wireless Access Card on your computer.
- ✓ After making the hardware connections of your AP-400 as explained in the previous section, power it on.
- ✓ On the wireless computer(s) that will be connected to the AP-400, start the utility program for the Wireless Access Card (e.g. "Intel Proset" or "Wireless Network Connection" for Windows). Look for wireless networks in range in the "View Wireless Networks" window.
- ✓ Connect to the wireless network with the name (SSID) "AIRTIES_AP-400", the default SSID of the wireless network set up by the AP-400. If you have assigned a different SSID to your wireless network during configuration, connect to that one.

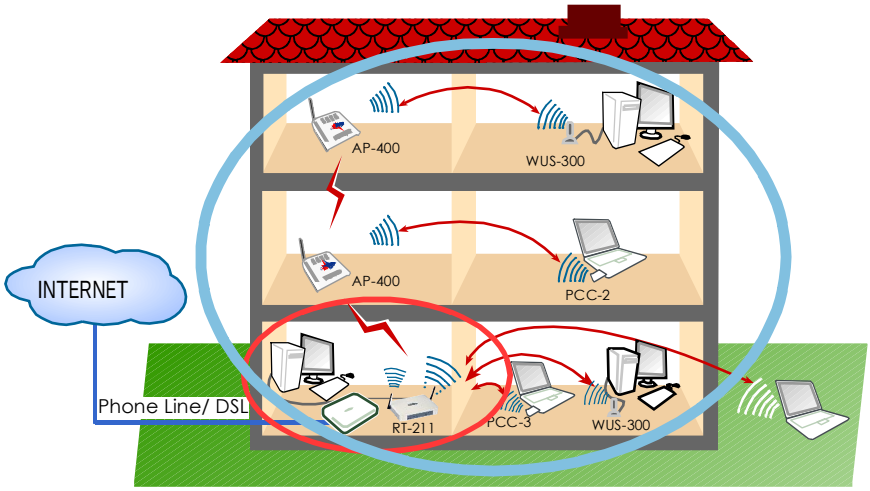
On a computer running Windows XP, double-clicking on the wireless network icon on the bottom right corner of the desktop will open the "Wireless Network Connection Status" window. You will see the following screen when you click on "View Wireless Networks".


Wireless Network Connection
Network Tasks
Refresh network list
Set up a wireless network for a home or small office
Related Tasks
Learn about wireless networking
Change the order of preferred networks
Change advanced settings
Choose a wireless network
Click an item in the list below to connect to a wireless network in range or to get more information.
AIRTIES_AP-400
Connected
Unsecured wireless network
Connect

Double-click on the "AIRTIES_AP-400" network to connect to it.

4.3.2. Configuring the AP-400 as a Repeater

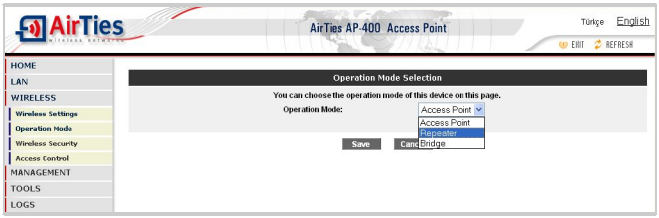
To use the AP-400 as a repeater, go to "Operation Mode" under the "WIRELESS" menu and select "**Repeater**" as the Operation mode.The following diagram is an example of AP-400's use as a repeater.



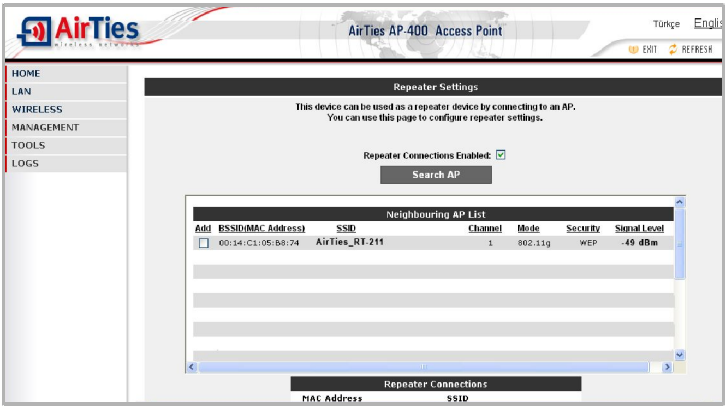
Using more than one AP-400's in Repeater mode, and making use of AirTies Mesh Technology®, you can extend and strengthen your wireless network. AirTies Mesh Technology® helps resolve problems such as weak or lost signal, and limited signal range that is commonly seen in concrete buildings.

The Mesh Network consists of a wireless AirTies router and multiple AirTies AP-400 devices. The AP-400's set to function as repeaters communicate with each other and the wireless AirTies router via the Mesh protocol.

The wireless computers connect to the AP-400 closest to them automatically. They reach the AirTies router via the other AP-400's in between. In this manner, wireless coverage area can be expanded significantly.



When you select Repeater as the "Operation Mode", the "Repeater Settings" page will come up. From then on, this title will also appear under the "Wireless Settings" menu of the web user interface.

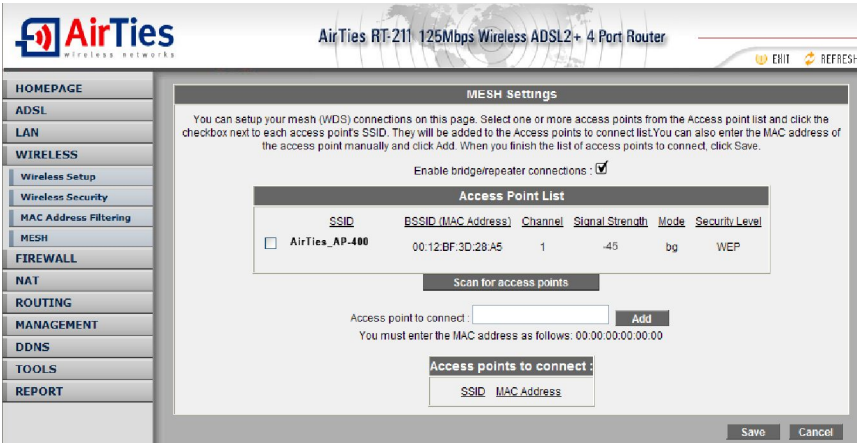


In the "Repeater Settings" page, you will find a list of available access points and repeaters the AP-400 can connect to.

Check the box to the left of the access point / repeater you would like the AP-400 to connect to. The access point will appear in the list below, titled "Access Points to Connect to". Click "Save" to complete the Repeater Settings

Important: The repeaters and the access point must all be operating on the same channel to form a Mesh Network. They should also have a transmit power of at least -70dBm. (In the above example, -49dBm satisfies this requirement).

You need to configure the access point that will form a Mesh Network with the AP-400 the same way as the AP-400. For example, to setup a Mesh Network between an RT-211 and an AP-400, the Mesh settings should be done the same way on both devices. The screenshot below shows the RT-211 Mesh setup screen.



In this window, after you check the "Activate Bridge/Repeater Connections" box, check the box to the left of the AP-400 that you have already configured and click "Save".

The RT-211 and the AP-400 will now recognize each other. At the point where the wireless signal from the RT-211 weakens, the AP-400 will boost the signal and extend the coverage area.

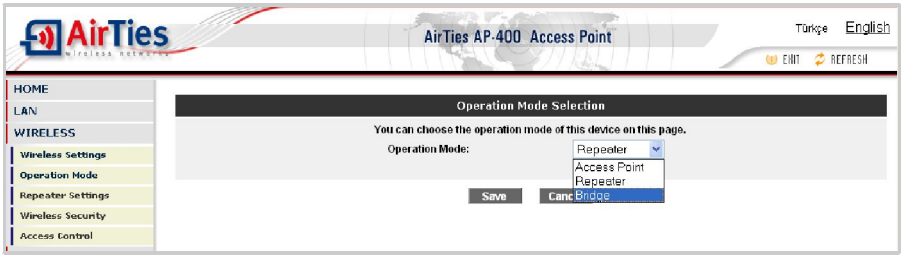
Note: You can only use WEP encryption in a wireless network with a MESH structure. You can find more information about WEP encryption settings in the Wireless Security section of this manual.

4.3.3. Configuring the AP-400 as a Bridge

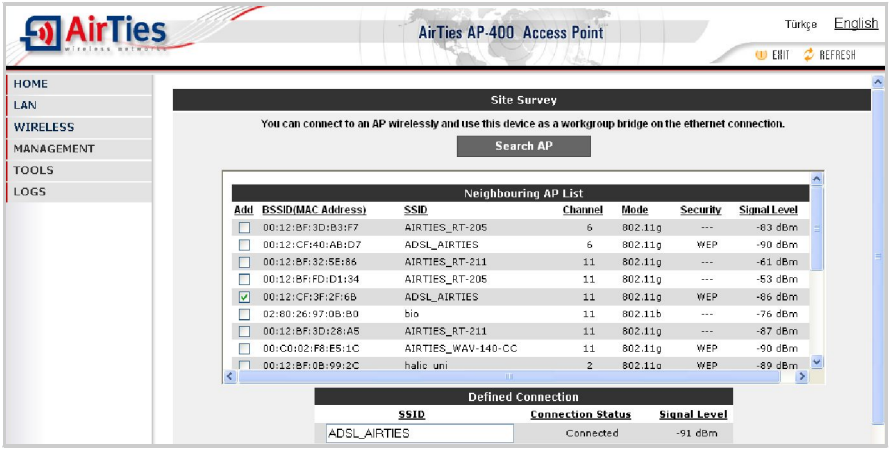
You can include a wired device (e.g. printer) in your wireless network by connecting the device to one of the LAN ports of an AP-400 operating in **Bridge** mode. The diagram below is an example of the AP-400's use as a bridge (connected to a printer).

To set the bridge mode, go to "Operation Mode" under the "WIRELESS" menu of the web interface. Select Bridge in the "Operation Mode" field and click "save"

Note: The AP-400 does not do wireless broadcast in Bridge mode. To configure and operate the AP-400 in Bridge mode, you need to be directly connected to the AP-400.



When you select Bridge as the "Operation Mode", the "Access Point List" page will come up. At the same time, "Access Point List" will appear under the "Wireless Settings" menu of the web interface.


AirTies
AirTies AP-400 Access Point
Türkçe English
EXIT REFRESH
HOME
LAN
WIRELESS
MANAGEMENT
TOOLS
LOGS
Site Survey
You can connect to an AP wirelessly and use this device as a workgroup bridge on the ethernet connection.
Search AP
Neighbouring AP List
Add BSSID(MAC Address) SSID Channel Mode Security Signal Level
00:12:BF:3D:B3:F7 AIRTIES_RT-205 6 802.11g --- -83 dBm
00:12:CF:40:AB:D7 ADSL_AIRTIES 6 802.11g WEP -90 dBm
00:12:BF:32:5E:86 AIRTIES_RT-211 11 802.11g --- -61 dBm
00:12:BF:FD:D1:34 AIRTIES_RT-205 11 802.11g --- -53 dBm
00:12:CF:3F:2F:6B ADSL_AIRTIES 11 802.11g WEP -86 dBm
02:80:26:97:0B:B0 bio 11 802.11b --- -76 dBm
00:12:BF:3D:28:A5 AIRTIES_RT-211 11 802.11g --- -87 dBm
00:C0:02:F8:E5:1C AIRTIES_WAV-140-CC 11 802.11g WEP -90 dBm
00:12:BF:0B:99:2C halic uni 2 802.11g WEP -89 dBm
Defined Connection
SSID Connection Status Signal Level
ADSL_AIRTIES Connected -91 dBm

In this window, you will see a list of all the available wireless access points that the AP-400 Bridge can connect to. Check the box next to the access point you would like to connect to and click "Save".

4.4. Wireless Security Settings

It is not necessary to configure wireless security to enable wireless communication. However, due to growing importance of data security, it is recommended that you choose one of the security protocols described below that fits your needs.

Wi-Fi Protected Access (WPA), WPA2, and Wired Equivalent Privacy (WEP) are wireless encryption protocols that can be used to encrypt the data traffic between the wireless computer and the AP-400.

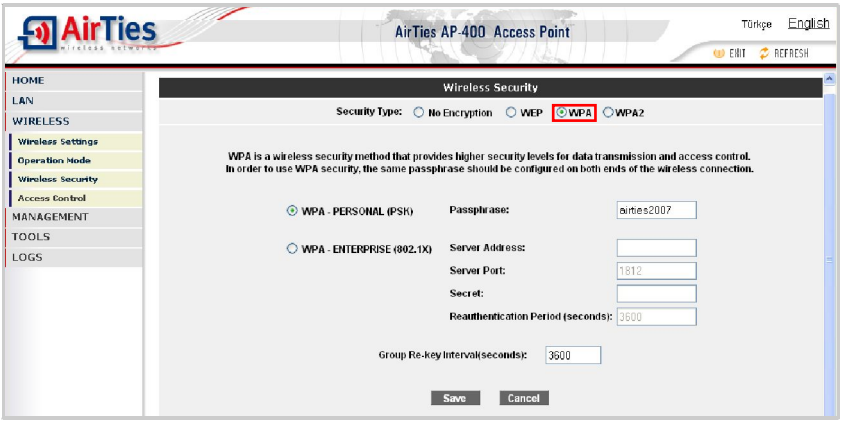
MAC Address Filtering allows you to control which network cards can connect to the AirTies AP-400. For your wireless network security, it is recommended that both MAC address filtering and one of WPA, WPA2 or WEP wireless encryption protocols be activated.

4.4.1 WPA Security Settings

WPA (Wi-Fi Protected Access) is one of the most advanced wireless encryption standards today and provides you with the highest level of data protection. All AirTies wireless products and the newly introduced 802.11g wireless communication devices support WPA. If you would like to use WPA in your wireless network, all the wireless adapters in your network should support WPA.

To enable WPA encryption:

1. Go to "Wireless Security" under the "WIRELESS" menu of the Web interface of your router.
2. Click on the "WPA" button in the "Select Wireless Security Level" section of the "Wireless Security" screen.
3. Click on the "PSK key" button and enter a network key that is 8 to 63 characters long (use a combination of letters and digits) in the "Passphrase" field. Make sure you choose a key that is not easy to guess. Click "Save".



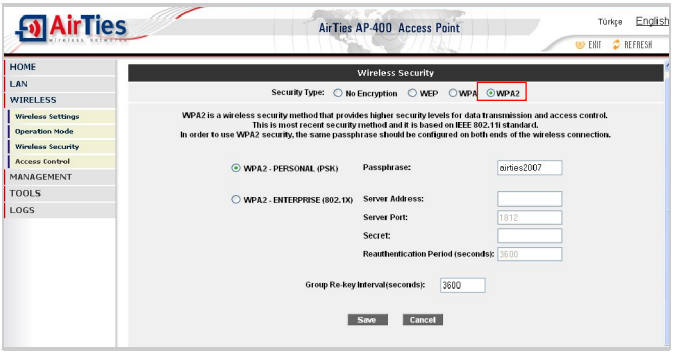
4.You must activate WPA and set the same network key in all the devices that will communicate with your AirTies AP-400.

4.4.2 WPA2 Security Settings

WPA2, defined by the IEEE 802.11i standard, is one of the latest wireless encryption methods. If you would like to use WPA2 in your wireless network, all the wireless adapters in your network should support WPA2. For Centrino platform computers, it is necessary to download the WPA2 updates for the Microsoft XP operating system to be able to use WPA2 (www.microsoft.com).
To enable WPA2 encryption:

1. Go to "Wireless Security" under the "WIRELESS" menu of the Web interface of your router.
2. Click on the "WPA" button in the "Select Wireless Security Level" section of the "Wireless Security" screen.

3. Click on the "WPA2" and "PSK Key" buttons and enter a network key that is 8 to 63 characters long (use a combination of letters and digits) in the "Passphrase" field.



Make sure you choose a key that is not easy to guess. Click "Save".

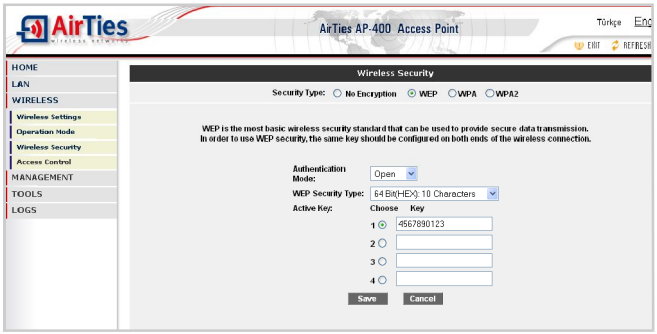
4. You must activate WPA2 and set the same network key in all the devices that will communicate with your AirTies AP-400.

4.4.3 WEP Security Settings

The AirTies AP-400 supports WEP (Wired Equivalent Privacy) encryption in addition to the WPA encryption standards. If any of the devices in your wireless network does not support WPA, it is recommended that you choose WEP encryption.

To enable WEP encryption:

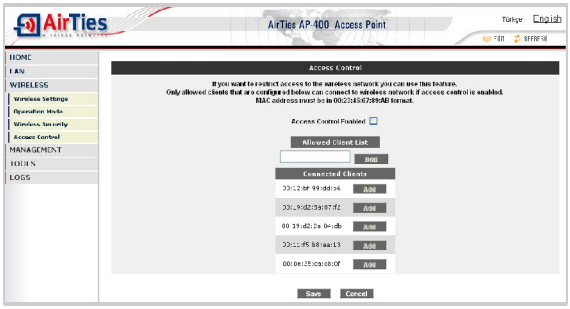
1. Go to "Wireless Security" under the "WIRELESS" menu of the Web interface of your router.
2. Click on the "WEP" button in the "Select Wireless Security Level" section of the "Wireless Security" screen.
3. Three levels of WEP encryption exists. 64-bit encryption uses a key of 10 hexadecimal digits (A-F and 0-9). 128-bit encryption uses 26 digits, and 256-bit encryption uses 58 digits. A key with more digits is more secure. After selecting the key length, enter the appropriate number of hexadecimal digits, any combination of (0-9, A-F), for the key.



4. You must activate WEP and set the same network key in all the devices that will communicate with your AirTies AP-400.

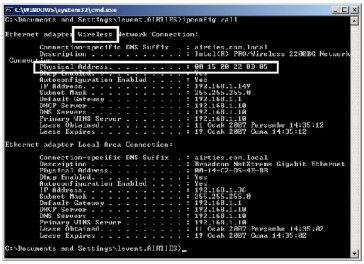
4.5. Access Control

To enable Access Control, go to "Access Control" under the "WIRELESS" menu of the AP-400 web interface. In the window that appears, you can enter the MAC addresses of the devices that are permitted to access the AP-400. No device other than those permitted can connect to the AP-400.



To add a new user, enter the MAC Address of the device in the "Allowed Clients List" field and click "Add". The MAC addresses that you enter will be added to the "Allowed Clients List".

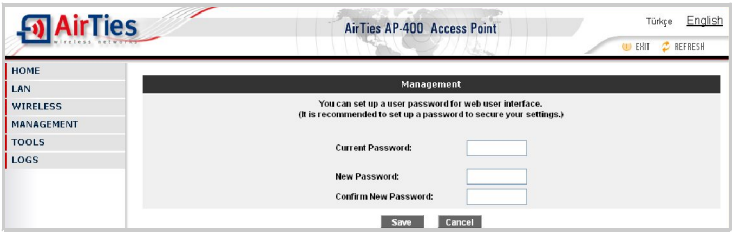
- Click the "Start" button on the lower left corner of your Windows desktop.
- Click "Run". Type cmd in the window that opens and click OK.
- Enter ipconfig /all in the command line.



The "Physical Address" displayed under the "Wireless Network Connection" is your computer's MAC address.

4.6. Management

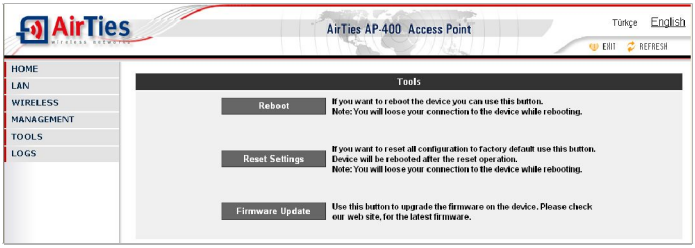
The default password for accessing the web-based user interface of the AP-400 is blank. It is recommended that you set a password to block unauthorized access to the web interface.



Enter the current password in the "Current Password" field. (Leave this field blank for the first use.) Then enter your new password in the "New Password" and "Confirm New Password" fields. Click "Save".

4.7. Tools

The AP-400 Web interface provides advanced management tools for: Restart, Reset to factory settings and Firmware update. Go to "TOOLS" menu of the web interface.


AirTies
AirTies AP-400 Access Point
Türkçe English
EXIT REFRESH
HOME
LAN
WIRELESS
MANAGEMENT
TOOLS
LOGS
Tools
Reboot
If you want to reboot the device you can use this button.
Note: You will loose your connection to the device while rebooting.
Reset Settings
If you want to reset all configuration to factory default use this button.
Device will be rebooted after the reset operation.
Note: You will loose your connection to the device while rebooting.
Firmware Update
Use this button to upgrade the firmware on the device. Please check
our web site, for the latest firmware.

In this page you can restart your device or reset it to factory defaults.

- The "Restart" button lets you turn your device off and then on remotely.
- The "Restore Factory Defaults" button allows you to set your device back to factory defaults remotely. This will clear all the current settings on your device.
- During either operation, the connection to the router will be lost. You can reconnect after the router comes back up.

Occasionally, a new firmware is published by AirTies to make use of new technologies and fulfill customer needs. It is recommended that you use the most recent version of the firmware for your device in order to take advantage of most recent technologies and increase the performance of your device.

You can see the version of the firmware that is currently on your AP-400 on the "Welcome" screen that appears as soon as you login to the Web interface.

To update the firmware, go to "Firmware Update" under the "TOOLS" menu. Click "Browse" and locate the most recent firmware file on your computer in the pop-up window that appears. (You can download the most recent firmware file from the AirTies website www.airties.com). Then click "Update".

After the firmware is successfully installed, the system will automatically be restarted. For this reason, your connection to the device will be lost and you will need to reconnect to make the installation settings.

4.8 Reset

To reset the AP-400 to the default factory settings, while the device is on, press and hold the reset button at the bottom of the device with the tip of a pencil or similar pointed object for 5 seconds.

Note: When you reset the AP-400, all your custom settings such as passwords and IP addresses will be erased.

5. Technical Specifications

- **Ports:** 5 Ethernet ports (10/100; auto MDI/MDIX), 9V power in, detachable antenna (with RSMA connector)
- **Wireless transmit power:** 20dBm EIRP
- **Wireless security:** WPA (802.1x, TKIP, PSK), WPA2 (IEEE802.11i, AES, CCMP), WEP (64/128 bit), MAC filtering, SSID hiding
- **Wireless standards:** Compliant with IEEE 802.11b/g, 802.11d, 802.11e and 802.11i
- **LEDs:** Power, WLAN, WAN, 4 LAN
- **Wireless data rates:** 1, 2, 5.5, 6, 9, 11, 12, 24, 36, 48, 54Mbps (auto speed adjustment)
- **Frequency range:** From ETSI 2400MHz to 2483.5MHz (13 channels, 3 not overlapping)
- **Power:** External 9V power adapter
- **Mounting:** wall or desktop
- **Reset button** to return the device to default factory settings

6. Physical Specifications

- Dimensions: 12 x 12 x 3 cm special design
- Weight: 150 g
- Power: 9Volt
- Operating Temperature: 0°C - 40°C
- Storage Temperature: -25°C - 75°C

AirTies
wireless networks

YYM.AP.400.UM.EN.D00 Rev 31072007

3yrs warranty

7/24

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